|  | IUA  | AUG                              | iAGU  | iUG I  | CCG  | IIV                              | ICAC                         | ACA                          | GGA                    | GGA  | AA I                        | CCA   | AIG                               | AGC                    | idGA                                      | AAA   | CIG  | iGC l                | IA                               |
|--|--|----------------------------------|---|--|--|----------------------------------|------------------------------|------------------------------|------------------------|--|-----------------------------|---|-----------------------------------|------------------------|---|---|--|----------------------|----------------------------------|
|  |  |                                  |   |  |  |                                  |                              |                              |                        |  |                             |   | M                                 | S                      | G   | K   | L  | <b>A</b> _           | Y                                |
| CGT  | TAC  | AGG                              | CGG   | GAT  | GGG  | CGG                              | TAT                          | CGG                          | CAC                    | СТС  | AAT                         | TTG   | CCA                               | .GCG                   | CCT                                       | GGC   | CAA  | AGA                  | TGG                              |
|  | T  |                                  | G   | M  | G  | G                                |                              |                              | Ţ                      |  |                             |   |                                   |                        | L   |   |  | _                    | G                                |
| OTT  | TAA  | ООТ                              | .001  | .000   | 400  | ОТО                              |                              |                              |                        |  |                             |   |                                   |                        |   |   |  |                      |                                  |
| CTT<br>F                                     | R  |                                  |   | A  |  | C                                | icuu<br>G                    | P                            | CAG<br>S               | CCG<br>R   | CAA<br>N                    | AIIA<br>Y                                       | CCA<br>Q                          | GCA<br>Q               | AIG<br>W                                  | IGC I   | GGA<br>D   |                      | AC/<br>Q                         |
|  |  |                                  | •   |  |  |                                  | <u>u</u>                     | _ <del>!</del>               |                        |  | - 14                        |   | <u>ur</u>                         |                        |   | <u> </u>  | <u> </u>   |                      | <u>.</u>                         |
| GGC  | GGC  | GCA                              | GGG   | CTA  |  |                                  |                              |                              |                        | AGT  | GGG                         | CAA   | CGT                               | GTC                    | CGA                                       | TTG   | GGA  | GTC                  | CAC                              |
| _ <u>A</u> _                                 | <u> </u>                                     | Q                                | <u>G</u>                                      | Υ  | T  | <u>_F</u>                        | <u>Y</u>                     | <u> </u>                     | <u>_s</u>              | ٧  | G                           | N   | ٧                                 | S                      | D   | W   | E  | S                    | T                                |
| GGT.   | AGA  | AGC                              | ATT   | CGA  | GCG  | CGT                              | CAA                          | GCG                          | GGA                    | CAT  | GGG                         | CCC   | GGT                               | CGA                    | TGT                                       | GCT   | GGT  | CAA                  | CA                               |
| V  | Е  | A                                | F   | E  | R  | ٧                                | К                            | R                            | D                      | М  | G                           | Р   | ٧                                 | D                      | ٧   | L   | ٧  | N                    | N                                |
| cec  | ece  | CAT                              | 'C A C  | •^^^   | .004   | 000                              | άστ                          | ^_T                          | .000                   |  | 0 A T                       |   |                                   |                        | ~~.                                       | <b>0</b> T0                                     |  |                      |                                  |
| CGC<br>A                                     | G  | UA I                             | T   | R  | D  | G                                |                              | <u>611</u><br>F              | R                      | K<br>K   | GAI<br>M                    |   | CGC<br>A                          | CGA<br>D               | CGA<br>D                                  | W   | GUG<br>R   | iUGU<br>A            | GG V                             |
|  |  |                                  | -   |  | _  | -                                | _                            | •                            | ••                     | ••   |                             |   | ,,                                |                        |   | .,  | - 11   |                      |                                  |
| CAT  |  |                                  |   | CCT  |  |                                  |                              |                              |                        |  |                             |   |                                   | GGT                    | GAT                                       | CGA   | CGA  | CAT                  | GG                               |
| _!_  | D  | <u>T</u>                         | <u>N</u>                                      | _ <u>L</u> _                                 | N  | S                                | <u>L</u>                     | <u> F</u>                    | N                      | <u>v</u>   | <u>T</u>                    | <u>K</u>  | Q                                 | <u>v</u> _             |   | D   | D  | M                    | <u> </u>                         |
| CGA  | GCG  | CCA                              | GTG   | 666  | CCG  | CAT                              | CGT                          | CAA                          | CAT                    | CAG  | CTC                         | GGT   | GAA                               | CGG                    | GCA                                       | GAA   | GGG  | GCA                  | GT1                              |
| E  | R  |                                  | 140   |  |  |                                  |                              |                              |                        |  |                             |   |                                   |                        |   |   |  |                      |                                  |
| <u> </u>                                     | IX   | Q                                | W   | <u>G</u>                                     | R  |                                  | <u>v</u>                     | <u>N</u>                     | 1                      | <u>S</u>   | <u>s</u>                    | <u>_v</u>                                       | <u>N</u>                          | G                      | Q   | <u>K</u>  | G  | Q                    | F                                |
|  |  |                                  |   |  |  |                                  |                              |                              | 000                    |  |                             |   |                                   | <del></del>            |   |   | _  | _                    | -                                |
|  |  |                                  |   |  |  | CAC<br>T                         |                              |                              | GGC<br>A               |  |                             | CCA   |                                   | <del></del>            |   | CAT   | _  | _                    | <u>GG(</u>                       |
| CGG  | CCA  | GAC                              | GAA   | CTA  | TTC  |                                  | GGC                          | GAA                          |                        | GGG  | CAT                         |   | TGG                               | CTT                    | CAC                                       |   | GGC  | _                    | -                                |
| CGG<br>G                                     | CCA<br>Q<br>GGA                              | GAC<br>T                         | GAA<br>N<br>GGC                               | CTA<br>Y                                     | TTC<br>S<br>CAA                              | T<br>GGG                         | GGC<br>A                     | GAA<br>K                     | A<br>GGT               | GGG<br>G<br>CAA  | CAT<br>I                    | CCA<br>H  | TGG<br>G                          | CTT<br>F               | CAC<br>T                                  | CAT<br>M  | GGC<br>A   | GCT<br>L             | GG(                              |
| CGG<br>G                                     | CCA<br>Q                                     | GAC<br>T                         | GAA<br>N                                      | CTA<br>Y                                     | TTC<br>S                                     | T                                | GGC<br>A                     | GAA<br>K                     | A                      | GGG<br>G   | CAT<br>I                    | CCA<br>H  | TGG<br>G                          | CTT<br>F               | CAC                                       | CAT<br>M  | GGC<br>A   | GCT<br>L             | GG(                              |
| CGG<br>G<br>GCA                              | CCA<br>Q<br>GGA                              | GAC<br>T<br>AGT<br>V             | GAA<br>N<br>GGC<br>A                          | CTA<br>Y<br>CAG<br>S                         | TTC<br>S<br>CAA<br>K                         | T<br>GGG<br>G                    | GGC<br>A<br>CAT              | GAA<br>K<br>CAC<br>T         | A<br>EGGT<br>V         | GGG<br>G<br>CAA<br>N                                     | CAC<br>T                    | CCA<br>H<br>GGT<br>V                            | TGG<br>G<br>GTC<br>S              | CTT<br>F<br>GCC<br>P   | T<br>GGG                                  | CTA   | GGC<br>A<br>CAT  | CGG<br>CGG           | GG(<br>A<br>CA(                  |
| CGG<br>G<br>GCA                              | CCA<br>Q<br>GGA                              | GAC<br>T<br>AGT<br>V             | GAA<br>N<br>GGC<br>A                          | CTA<br>Y<br>CAG<br>S                         | TTC<br>S<br>CAA<br>K                         | GGG<br>G<br>CCG                  | GGC<br>A<br>CAT<br>I         | GAA<br>K<br>CAC<br>T         | A<br>EGGT<br>V         | GGG<br>G<br>CAA<br>N                                     | CAT<br>I<br>CAC<br>T        | CCA<br>H<br>GGT<br>V                            | TGG<br>G<br>GTC<br>S              | GCC<br>P               | T<br>GGG                                  | CTA   | GGC<br>A<br>CAT  | CGG<br>G             | GG(<br>A<br>CA(<br>T             |
| CGG<br>G<br>GCA<br>Q<br>GGA                  | CCA<br>Q<br>GGA<br>E<br>CAT                  | GAC<br>T<br>AGT<br>V<br>GGT      | GAA<br>N<br>GGC<br>A<br>TCG<br>R              | CTA<br>Y<br>CAG<br>S<br>CGC                  | CAA<br>K<br>CAT                              | GGG<br>G<br>CCG<br>R             | GGC<br>A<br>CAT<br>I         | GAA<br>K<br>CAC<br>T<br>GGGA | A<br>CGT<br>V          | GGG<br>G<br>CAA<br>N<br>GCT<br>L                         | CAT<br>I<br>CAC<br>T<br>GGA | CCA<br>H<br>GGT<br>V                            | GTC<br>S<br>GAT                   | GCC<br>P<br>CGT<br>V   | CGC<br>T<br>CGC<br>A                      | CTA<br>Y  | GGC<br>A<br>CAT<br>I   | CGG<br>G<br>TCC      | GGG<br>A<br>CAC<br>T             |
| GGA<br>GGA<br>GGA                            | CCA<br>Q<br>GGA<br>E<br>CAT<br>M             | GAC<br>T<br>AGT<br>V<br>GGT<br>V | GGAA<br>N<br>GGC<br>A<br>TCG<br>R             | CTA Y CAG S CGC A                            | TTC<br>S<br>CAA<br>K<br>CAT<br>I             | GGG<br>G<br>CCG<br>R             | GGGC<br>A<br>CAT<br>I<br>TCC | GAAAT                        | A<br>CGT<br>V          | GGGG<br>G<br>CAA<br>N<br>GCT<br>L                        | CAC<br>T<br>GGA<br>E        | CCAAAAA K                                       | GTC S GAT                         | GCCC<br>P<br>CGTC<br>V | T GGGG                                    | CTA<br>Y<br>CCAC<br>T                           | CAT  | CGG<br>G<br>TCC<br>P | GG(<br>A<br>CA(<br>T             |
| GGA<br>GGA<br>GGA                            | CCA<br>Q<br>GGA<br>E<br>CAT<br>M             | GAC<br>T<br>AGT<br>V<br>GGT<br>V | GGAA<br>N<br>GGC<br>A<br>TCG<br>R             | CTA Y CAG S CGC A                            | TTC<br>S<br>CAA<br>K<br>CAT<br>I             | GGG<br>G<br>CCG<br>R             | GGGC<br>A<br>CAT<br>I<br>TCC | GAAAT                        | A<br>CGT<br>V          | GGGG<br>G<br>CAA<br>N<br>GCT<br>L                        | CAC<br>T<br>GGA<br>E        | CCAAAAA K                                       | GTC S GAT                         | GCCC<br>P<br>CGTC<br>V | T GGGG                                    | CTA<br>Y<br>CCAC<br>T                           | CAT  | CGG<br>G<br>TCC      | GG(<br>A<br>CA(<br>T             |
| CGG<br>G<br>GCA<br>Q<br>GGA<br>D<br>GCG<br>R | CCA<br>Q<br>GGA<br>E<br>CAT<br>M<br>CCG<br>R | GAC T AGT V GGT CCT L            | GAA<br>N<br>GGC<br>A<br>TCG<br>R<br>GGG<br>G  | CTAG Y CAG S CGC A CAC T                     | CAA<br>K<br>CAT<br>I<br>GCC<br>P             | T GGG G CCG R GGA E              | GGGCAT                       | GAAC T GGGA D AAT I          | A CGGT V CGGC A        | GGG<br>G<br>CAA<br>N<br>GCT<br>L<br>GTC<br>S             | CAC T GGA E CAT I CAA       | GGGT V  | GTC S GAT I GCGG                  | CGT V                  | CAC<br>T<br>CGC<br>A<br>CGCT<br>L         | CTA<br>Y<br>CGAC<br>T                           | GGGGA  CAT  CAT  CCAT  C | CGGGGAD              | GGG<br>A<br>CAC<br>T<br>GGG<br>V |
| CGG<br>G<br>GCA<br>Q<br>GGA<br>D<br>GCG<br>R | CCA<br>Q<br>GGA<br>E<br>CAT<br>M<br>CCG<br>R | GAC T AGT V GGT CCT L            | GAA<br>N<br>GGC<br>A<br>TCG<br>R<br>GGG<br>G  | CTAG Y CAG S CGC A CAC T                     | CAA<br>K<br>CAT<br>I<br>GCC<br>P             | T GGG G CCG R GGA E              | GGGCAT                       | GAAC T GGGA D AAT I          | A CGGT V CGGC A        | GGG<br>G<br>CAA<br>N<br>GCT<br>L<br>GTC<br>S             | CAC T GGA E CAT I CAA       | GGGT V  | GTC S GAT I GCGG                  | CGT V                  | CAC<br>T<br>CGC<br>A<br>CGCT<br>L         | CTA<br>Y<br>CGAC<br>T                           | GGGGA  CAT  CAT  CCAT  C | CGGGGAD              | GGG<br>A<br>CAC<br>T<br>GGG<br>V |
| GGA<br>GGA<br>GGA                            | CCA<br>Q<br>GGA<br>E<br>CAT<br>M<br>CCG<br>R | GAC T AGT V GGT L GTT F          | GAAA<br>N<br>GGC<br>A<br>TCG<br>R<br>GGG<br>G | CTA<br>Y<br>CAG<br>S<br>CGC<br>A<br>CAC<br>T | CAA<br>K<br>CAT<br>I<br>GCC<br>P<br>GGG<br>G | GGG<br>G<br>CCG<br>R<br>GGA<br>E | GGGGA  GGGA  E  GGGA  D      | GAAAT  AAT  F                | A CGGT V CGGC A CCTC S | GGG<br>G<br>CAA<br>N<br>GCT<br>L<br>GTC<br>S<br>GCT<br>L | CAT I CAC T GGA E CAT I CAA | GCCA<br>H<br>GGGT<br>V<br>AAAA<br>K<br>CAC<br>T | GTC<br>S<br>GAT<br>I<br>GCGG<br>G | GCCT P CGTG V CGTG W   | CAC<br>T<br>GGGG<br>A<br>GGCT<br>L<br>GCA | CCAT<br>M<br>CCTA<br>Y<br>CCAC<br>T<br>GGC<br>A | CAT<br>I<br>CCAT<br>I<br>CCAT<br>GGGG  | CGGGAD               | A CAC T CGGT V TGA               |



